EXHIBIT B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

MORDEKHAI VELGER et al.

Group Art Unit:

Examiner:

Serial No.:   Unknown
(International Application Number: PCT/IL2004/000336)

Filed: Herewith
(International Filing Date: 20 April 2004)

For: OSCILLATING MIRROR HAVING A
            PLURALITY OF EIGENMODES

Attorney Docket No.:   BORO0108PUSA

PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

MAIL STOP PCT
Commissioner for Patents
U.S. Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Original) Geometric-waveform oscillator for processing light, the geometric-waveform oscillator comprising:

a plurality of masses, at least one of said masses comprising a light processing module;

at least one force producing element coupled with at least one of said masses, said at least one force producing element applying at least one force to said at least one masses; and

a plurality of elastic elements, said elastic elements coupling said masses together, said elastic elements coupling said at least one masses with a respective at least one support,

wherein the mass values of said masses, the force value of said at least one force, and the stiffness coefficients of said elastic elements, are selected such that said light processing module oscillates according to a geometric waveform.

2.   (Original) The geometric-waveform oscillator according to claim 1, wherein said geometric waveform is selected from the list consisting of:

triangular;

non-sinusoidal; and

square.

3.   (Original) The geometric-waveform oscillator according to claim 2, wherein said triangular waveform is symmetric.

4.   (Original) The geometric-waveform oscillator according to claim 2, wherein said triangular waveform is asymmetric.

5.   (Original) The geometric-waveform oscillator according to claim 1, wherein said light processing module reflects light.

6.   (Currently amended) The geometric-waveform oscillator according to claim 1, wherein said light processing module oscillates in an oscillatory motion selected [[form]] from the list consisting of:

linear; and

angular.

7.   (Original) The geometric-waveform oscillator according to claim 1, wherein said at least one force producing element is selected from the list consisting of:

mechanical;

electronic;

electromechanical;

electrostatic;

thermodynamic; and

fluidic element.

8.   (Original) The geometric-waveform oscillator according to claim 1, wherein said at least one force producing element is located on said at least one support.

9.   (Original) The geometric-waveform oscillator according to claim 1, wherein each of said masses, said at least one force producing element, and said elastic elements are incorporated with a microelectromechanical system.

10.   (Original) The geometric-waveform oscillator according to claim 1, wherein said light processing module is located between at least two of said masses.

11.   (Original) The geometric-waveform oscillator according to claim 10, wherein respective pairs of said at least two masses are symmetrically located at two sides of said light processing module.

12.   (Original) The geometric-waveform oscillator according to claim 10, wherein respective pairs of said at least two masses located at two sides of said light processing module, have substantially the same geometric and physical characteristics.

13.   (Original) The geometric-waveform oscillator according to claim 1, wherein said masses and said elastic elements are located between two of said respective at least one support.

14.   (Original) The geometric-waveform oscillator according to claim 1, wherein the densities of said masses and said elastic elements are substantially the same.

15.   (Original) The geometric-waveform oscillator according to claim 1, further comprising at least one damping element coupled with at least one of said at least one masses, at least one of said elastic elements, and with said respective at least one support.

16.   (Currently amended) Geometric-waveform oscillator, according to ~~any of claims 1-15~~ claim 1 substantially as described hereinabove.

17.   (Currently amended) Geometric-waveform oscillator, according to ~~any of claims 1-15~~ claim 1 substantially as illustrated in any of the drawings.
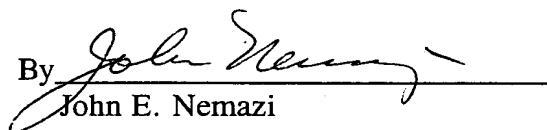
Remarks

The claims have been amended to eliminate multiple dependent claims. No issue of new matter is raised by virtue of these amendments.

If the Examiner has any questions or concerns as to patentability or notes any additional errors of a §112 nature, he is invited to telephone the undersigned so that the matter can be promptly handled and the case passed on to issue.

Respectfully submitted,

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Date: <u>October 21, 2005</u>

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